

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Paten and Trademark Office
Address COMMISSIONER FOR PATENTS
ALPONDIA Virginia 22313-1450

Alexandria, Virginia 22313-1450 www.usplo.gov

			_	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/863,513	05/23/2001	Edward Waltz	ERIM-45702/03	9882
25006	7590 10/19/2005		EXAM	INER
GIFFORD, KRASS, GROH, SPRINKLE & CITKOWSKI, P.C			CHANG, SUNRAY	
PO BOX 7021 TROY, MI 4			ART UNIT	PAPER NUMBER
			2121	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/863,513	WALTZ ET AL.				
		Examiner	Art Unit				
		Sunray Chang	2121				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES and time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status		•					
1)	Responsive to communication(s) filed on <u>08 Au</u>	iaust 2005					
' =		action is non-final.					
'=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٧,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
		n					
•	Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
· <u> </u>	6)⊠ Claim(s) <u>1-12 and 15-23</u> is/are rejected.						
	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Application/Control Number: 09/863,513

Art Unit: 2121

DETAILED ACTION

1. This office action is in responsive to the paper filed on August 8th, 2005.

Claims 1 - 12, and 15 - 23 are presented for examination.

Claims 1 - 12, and 15 - 23 are rejected.

Claim Interpretation

2. The term, "imagery" has been interpreted as "information of imagery", based on the definition in specification [Page 5, Lines 11 – 16] "The <u>TISC</u> automatically <u>detects and correlates events</u> (e.g., forest fires, traffic jams, building fires, floods) or objects (e.g., forests, vehicles, buildings, rivers) that are <u>observable in imagery</u> and <u>described in text reports</u>", This definition provides the basis for how the claims will be interpreted in the body of the rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 10, and 12 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Margaret E. Elliott (U.S. PG Pub. 2002/0156779, and referred to as Elliott hereinafter).

Application/Control Number: 09/863,513 Page 3

Art Unit: 2121

Regarding independent claim 1,

Elliott teaches,

a method of correlating text and imagery [Abstract, 0002 – 0004, 0023, and 0044], steps of

specifying a target concept [0026];

providing textual material and imagery [0025 – 0026];

training a text search detector to examine the textual material for text regions which relate to

the target concept, and creating a text target detection record in a database A in the event of a

match or other meaningful association; [0027 – 0029]

• training a discriminating feature detector to search for locations within the imagery which

relate to the target concept, and creating a location target detection record in a database B in

the event of a match or other meaningful association; [0027 – 0029, the imagery is

considered to be the "coordinate information" in Elliott] and

comparing the records in both databases to declare an approximate correlation, if any,

indicative of a common target concept. [0029, and 0044]

Regarding dependent claims 2 and 20,

the target concept is an event or object. [0031]

Regarding dependent claim 3,

• the discriminating features within the imagery include infrared, multispectral or spatial

features. [0016 – 0022]

Application/Control Number: 09/863,513 Page 4

Art Unit: 2121

Regarding dependent claim 4,

- defining a search phrase; [0026]
- testing the phrase against a validation set, [0029] and
- repeating (a) and (b) until all relevant targets in the validation set are detected. [0029]

Regarding dependent claim 5,

searching the text regions for geographic location text associated with the target concept.
 [0026 - 0027]

Regarding dependent claim 6,

• generating a concept identifier code in both the text and image target detection records using a lookup table in the event of a match or other meaningful association. [0029, and 0053]

Regarding dependent claim 7,

- Elliott teaches accomplished by reference to a Gazetteer of place names [gazetteer, 0031] and
- their corresponding lat-long locations [longitude/latitude coordinates, 0022].

Regarding dependent claim 8,

- a text document ID number [Identifier information, 0021],
- an index to locate a paragraph or passage within the document [attribute information, 0021],
- the target concept identifier code (CIC) [identifier code, 0021], and
- the latitude-longitude (LL) value [longitude/latitude coordinates, 0022].

Application/Control Number: 09/863,513 Page 5

Art Unit: 2121

Regarding dependent claim 9,

extracting a lat-long location [longitude/latitude coordinates, 0022].

Regarding dependent claim 10,

- an image ID number [Identifier information, 0021],
- an index to locate the target within the image [attribute information, 0021],
- the target concept identifier code (CIC) [identifier code, 0021], and
- the latitude-longitude (LL) value [longitude/latitude coordinates, 0022].

Regarding dependent claim 12,

- reference to a Gazetteer of place names [gazetteer, 0031] and their corresponding lat-long locations [longitude/latitude coordinates, 0022]; and
- a text document ID number [Identifier information, 0021],
- an index to locate a paragraph or passage within the document [attribute information, 0021],
- the target concept identifier code (CIC) [identifier code, 0021], and
- the latitude-longitude (LL) value [longitude/latitude coordinates, 0022].

Regarding dependent claims 15 and 21,

the event may be characterized as an emergency, tragedy, disaster or crisis. [0031 – 0032,
 0054 – 0058, 0062, and 0084]

Regarding dependent claims 16 and 22,

the object involves an environmental asset, structure, or mode of transportation. [0031 – 0032, 0054 – 0058, 0062, and 0084]

Regarding dependent claims 17 and 23

examining the textual material or searching for locations within the imagery are earned out in
 a batch mode or as part of a recursive flow. [0059 – 0061]

Regarding independent claim 18,

- a text and imagery spatial correlator, [0024 0029, and 0044]
- a document text parsing and interpretation engine which uses a context-based search to generate topical information; [0026 – 0028]
- an imagery engine operative to associate the components of an image subsystem operative to associate the topical information with the location information and present a result to a user.
 [0029]

Regarding dependent claim 19,

• a user-trainable agent to define the context of interest in a current search. 0026, and 0027]

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2121

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Elliott, and in view of Bruce W. Stalcup (U.S. Patent No. 6,741,743 and referred to as Stalcup hereinafter).

(Elliott as set forth above generally discloses the basic inventions.)

Regarding dependent claim 11,

Elliott teaches target concept within the imagery is in the form of an index [0025 – 0027].

Elliott does not teach a pixel.

Stalcup teaches a pixel [Col. 7, Lines 37-65], for the purpose of efficient storage of the data and efficient indexing and retrieval of multimedia data objects.

It would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the teaching of **Elliott** to include "pixel", for the purpose of efficient storage of the data and efficient indexing and retrieval of multimedia data objects.

Response to Amendment

Claim Objections

5. Applicants' amendment overcomes the claim objections by modifying the term, "test regions" to be "text region" in claim 7; Examiner has withdrawn the claim objection.

Claim Interpretations

6. Applicants' arguments regarding the examiner's interpretation for the term, "imagery", to be "information of imagery" is disagreed with. The paragraph, examiner cited from applicants' specification, teaches "The <u>TISC</u> ... <u>detects and correlates events or objects</u> ... <u>described in text reports</u>" [Page 5, Lines 11 – 14] defined how TISC detects and correlates events or objects and then described in text reports. Further, the paragraph continued, "The <u>TISC</u> detects events or objects and <u>creates a common descriptor such that</u> the <u>correlator can associate the event or objects</u>" [Page 5, Lines 14 – 16], can be used to explain how to compare the imagery with text.

Further Official Notice, "The American Heritage College Dictionary" [Page 691, Col. 2], cited by examiner for defining the term, "imagery", as "the use of vivid or figurative language to represent objects, actions, or ideas".

The claim interpretation retained.

Claim Rejections - 35 USC § 102

7. Applicants' argument regarding "imagery" is disagreed with as forth discussed.

The rejection retained.

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunray Chang whose telephone number is (571) 272-3682. The examiner can normally be reached on M-F 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached on (571) 272-3687. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/863,513

Art Unit: 2121

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-746-3506.

Sunray Chang Patent Examiner Group Art Unit 2121 Technology Center 2100 U.S. Patent and Trademark Office

October 12, 2005

Anthony Knight

Supervisory Patent Examiner

Page 10

Group 3600